IONQ

Investor Day 2026

NEW YORK STOCK EXCHANGE

Sept. 8, 2026

Niccolo de Masi

CHAIRMAN & CEO

IONQ EVOLUTION

1995 - 2018

QUANTUM PIONEER

First quantum logic gate

~$1M

2019 - 2024

COMMERCIALIZATION

First on all three major clouds

~$10M

2025

PLATFORM EXPANSION

First quantum platform company

~$100M

2026

VERTICAL INTEGRATION

First vertically integrated quantum platform

NEARING $300M

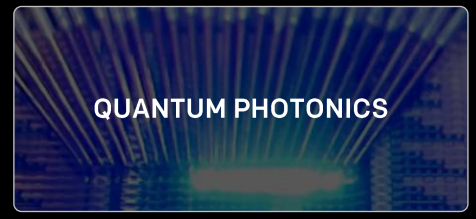
IONQ OUR FULL STACK QUANTUM PLATFORM

IONQ
QUANTUM
PRODUCTS & SERVICES

- QUANTUM COMPUTING
- QUANTUM NETWORKING
- QUANTUM SENSING
- QUANTUM SECURITY

skywater
QUANTUM FOUNDRY

QUANTUM ACCELERATED TECHNOLOGY SERVICES



Serving customer segments

- FINANCIAL SERVICES
- BIO & LIFE SCIENCES
- CHEMISTRY & MATERIALS
- ENERGY
- AI / ML
- CLOUD SERVICE PROVIDERS
- LOGISTICS & RETAIL

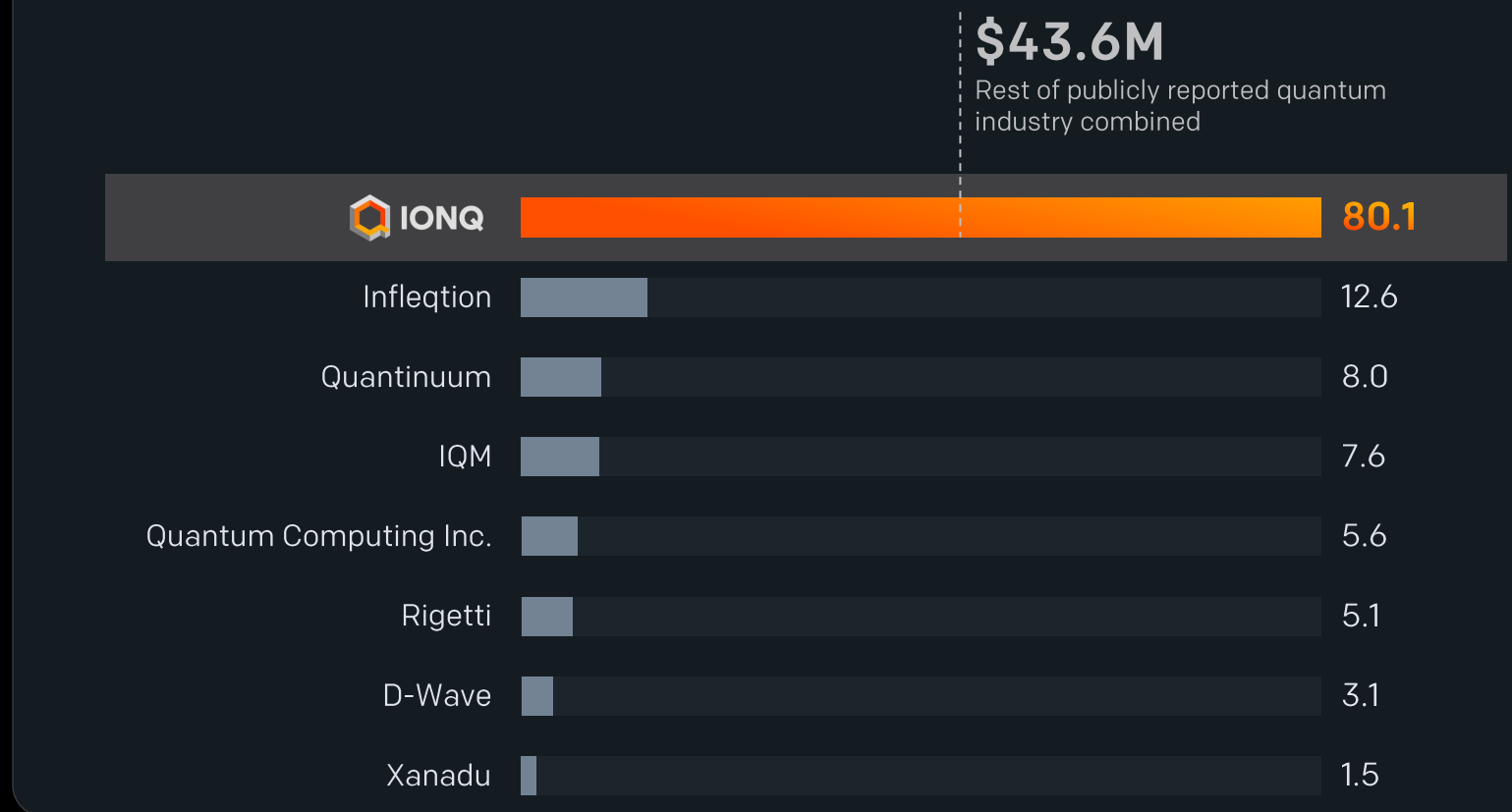
IONQ Q2 2026 REVENUE EXCEEDS THE REST OF THE PURE-PLAY REPORTED INDUSTRY

IONQ

$80.1M

Nearly double all other pure-play quantum companies combined

COMPUTE SENSING NETWORKING SECURITY



Source: available public filings for pure-play quantum computing businesses as of 8/31/2026
Note: IQM €6.7 million converted into USD at 1.15 exchange rate; Horizon Quantum excluded based upon no reported revenue in Q2 2026 period; Pasqal excluded due to no available reported data

IONQ CONTINUING TO EXECUTE ON OUR MILESTONES

HIGHLIGHTS: SEPTEMBER 2025 → SEPTEMBER 2026

FINANCIAL RESULTS

5x

OUR REVENUE SCALE H1 2025 TO H1 2026

100%

2026E Y/Y ORGANIC REVENUE GROWTH [2]

TECHNICAL LEADERSHIP

1kHz

ENTANGLEMENT RATE, 4X FASTER THAN PREVIOUS ION-ION RECORD [1]

256 qubit

QPUs FABRICATED AT SKYWATER

9x

BETTER qLDPC ERROR RATES THAN PRIOR DEMONSTRATIONS [3]

WALKING CAT

COMPLETE ARCHITECTURAL BLUEPRINT FOR FAULT TOLERANCE

MARKET VALIDATION

3

MAJOR DARPA PROGRAMS ADVANCING ACROSS OUR PLATFORM

4

2026 IEEE QUANTUM WEEK BEST PAPER WINS

1. IonQ findings from a forthcoming study, details of which will be made available upon publication; previous ion-ion record per O'Reilly et al. (2024)
2. Organic revenue is a supplemental measure representing revenue derived from IonQ's quantum computing products, and any acquisitions prior to December 31, 2024
3. Benchmarked on a Tempo engineering system

TWO FORCES CLOSING IN ON TODAY'S ENCRYPTION

LATEST ESTIMATES EXPECT QUANTUM COMPUTERS TO BREAK RSA-2048 THIS DECADE

Quantum will break traditional encryption

Sensitive data of every enterprise and government

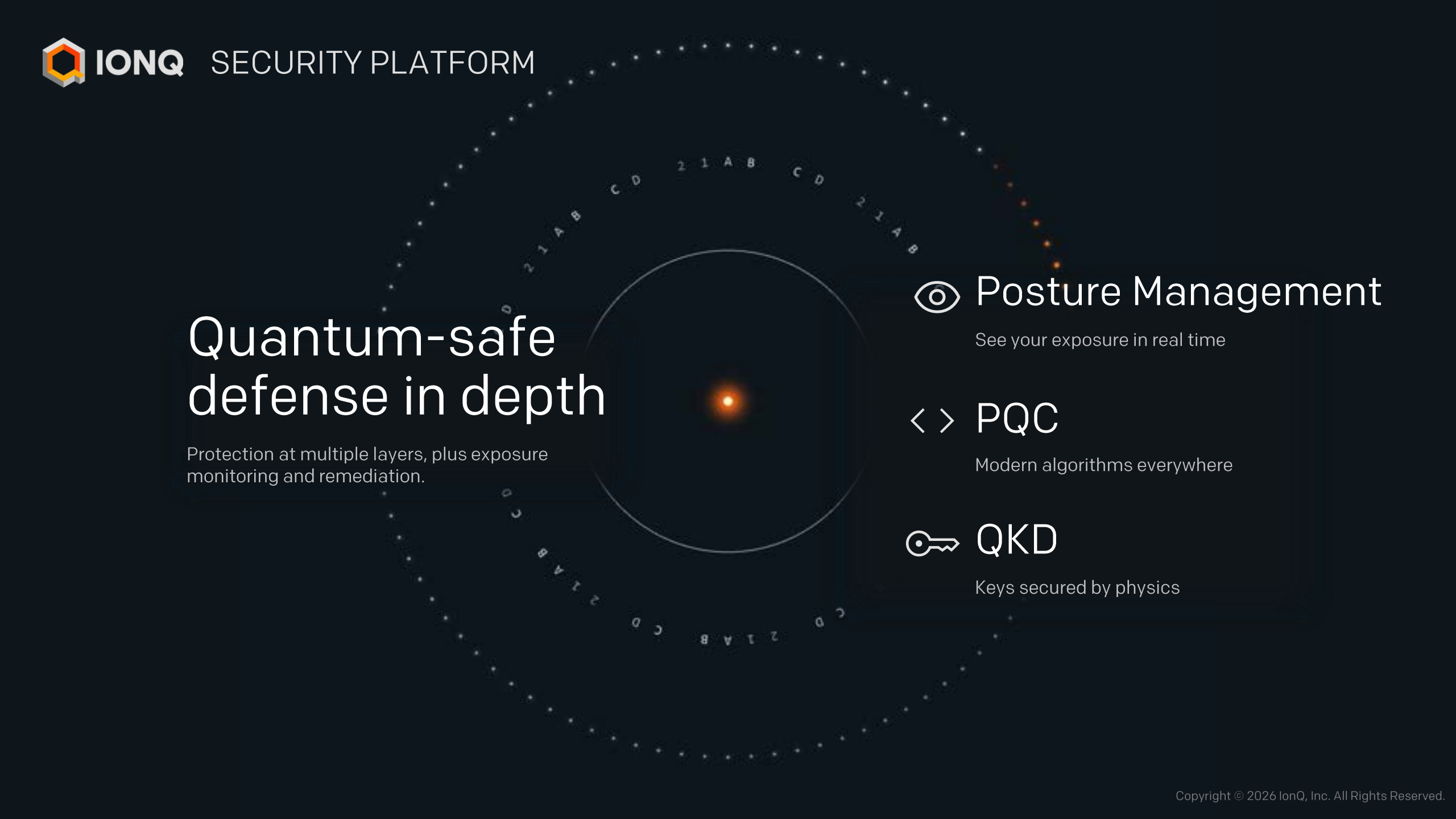
Classical AI is weakening modern PQC algorithms

AI HAS FOUND PREVIOUSLY UNKNOWN FLAWS IN LEADING NIST PQC CANDIDATES

IONQ SECURITY PLATFORM

Quantum-safe defense in depth

Protection at multiple layers, plus exposure monitoring and remediation.



Posture Management

See your exposure in real time

PQC

Modern algorithms everywhere

QKD

Keys secured by physics

IONQ GLOBAL COMPUTE FOOTPRINT

Announced on-prem deployments

Select cloud customer locations

IONQ aws Microsoft Azure Google Cloud

1,800+
Cloud users worldwide [1]

33,000+
Hours of cloud uptime

6
Continents

100%
FY26E Y/Y Organic Growth [2]

1. Unique users of IonQ Cloud; does not include AWS, Google or Azure
2. Organic revenue is a supplemental measure representing revenue derived from IonQ's quantum computing products, and any acquisitions prior to December 31, 2024

IONQ FULL COMPUTE STACK

The full-stack compute platform

Every layer engineered for the others, from application to atom.

01 APPLICATIONS

Real applications, in production today.

02 SOFTWARE & ERROR CORRECTION

A complete, published path to fault tolerance.

03 QPU & MANUFACTURING

Nature’s perfect qubits, controlled by silicon.

IONQ WITH DATA CENTER SCALABILITY

The full-stack compute platform

Every layer engineered for the others, from application to atom.

Supported by the world's fastest quantum interconnect[1]

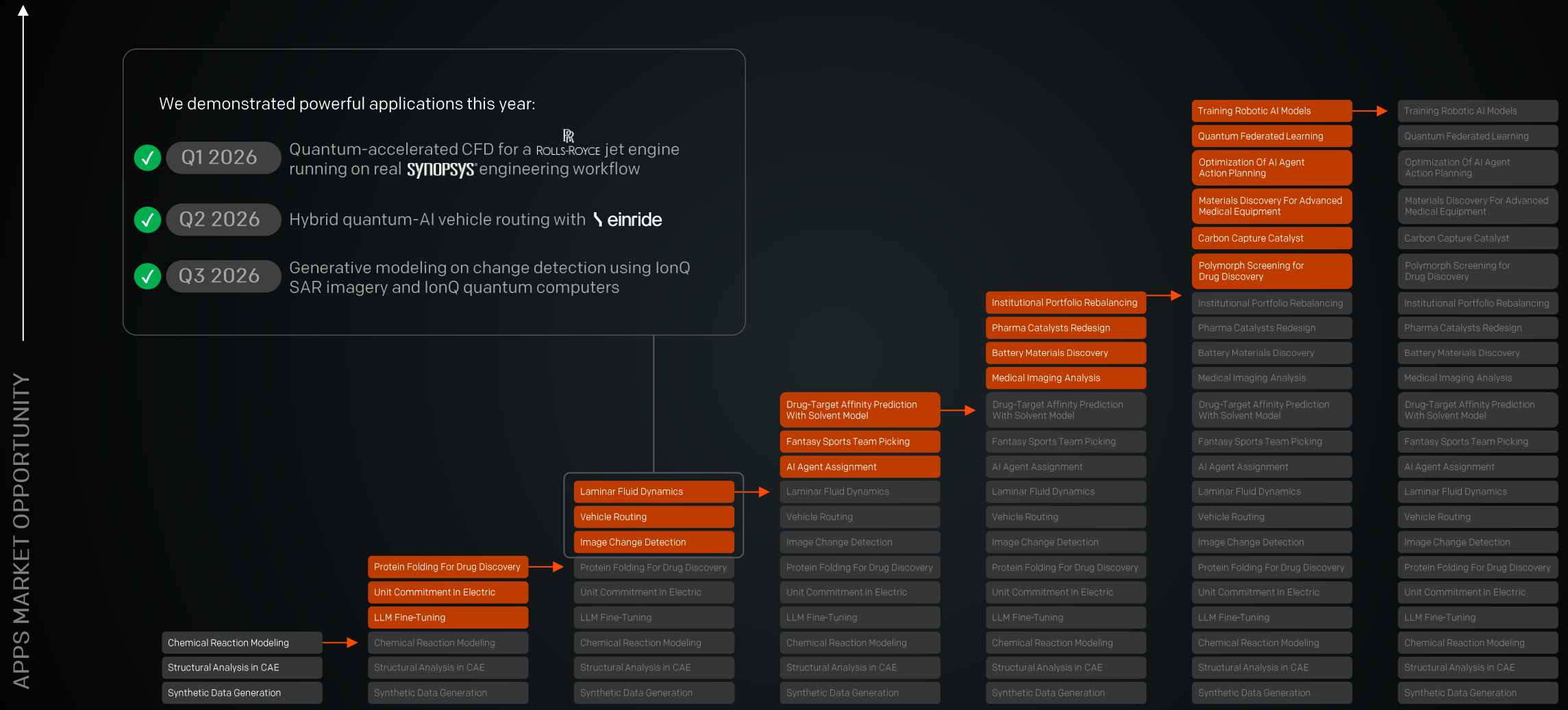
For data center-scale distributed architectures

1. IonQ findings from a forthcoming study; details will be made available upon publication

IONQ OUR FULL STACK APPROACH UNLOCKS VAST APPLICATION SPACE

We demonstrated powerful applications this year:

- ✓ Q1 2026 — Quantum-accelerated CFD for a Rolls-Royce jet engine running on real Synopsys engineering workflow
- ✓ Q2 2026 — Hybrid quantum-AI vehicle routing with einride
- ✓ Q3 2026 — Generative modeling on change detection using IonQ SAR imagery and IonQ quantum computers



IONQ HEALTHCARE APPLICATIONS

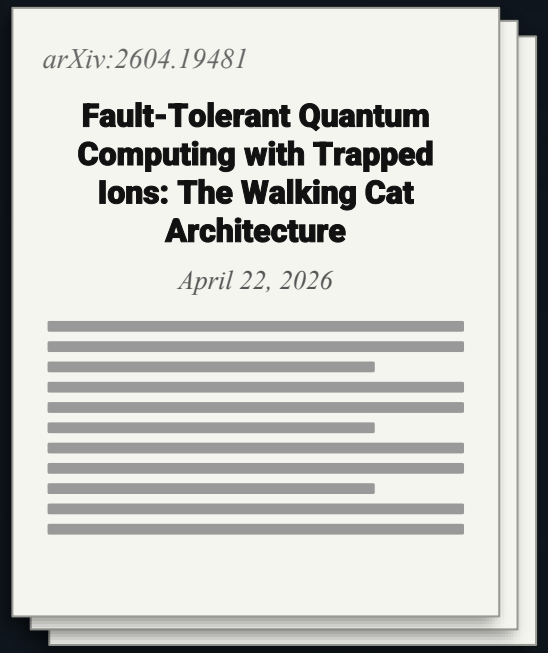
The hardest problems in medicine are computational.

- Design a cancer drug before it exists
- Read a genome with nothing missing
- Fit a treatment to one person’s biology
- Detect diseases before symptoms emerge
- Simulate molecular behavior

IONQ COMPUTE HARDENED SECURITY

April 2026

The Walking Cat blueprint



September 2026

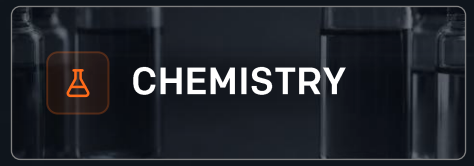
Full-stack resource estimate, accounting for every instruction

An IonQ system can recover a 256-bit elliptic-curve key:

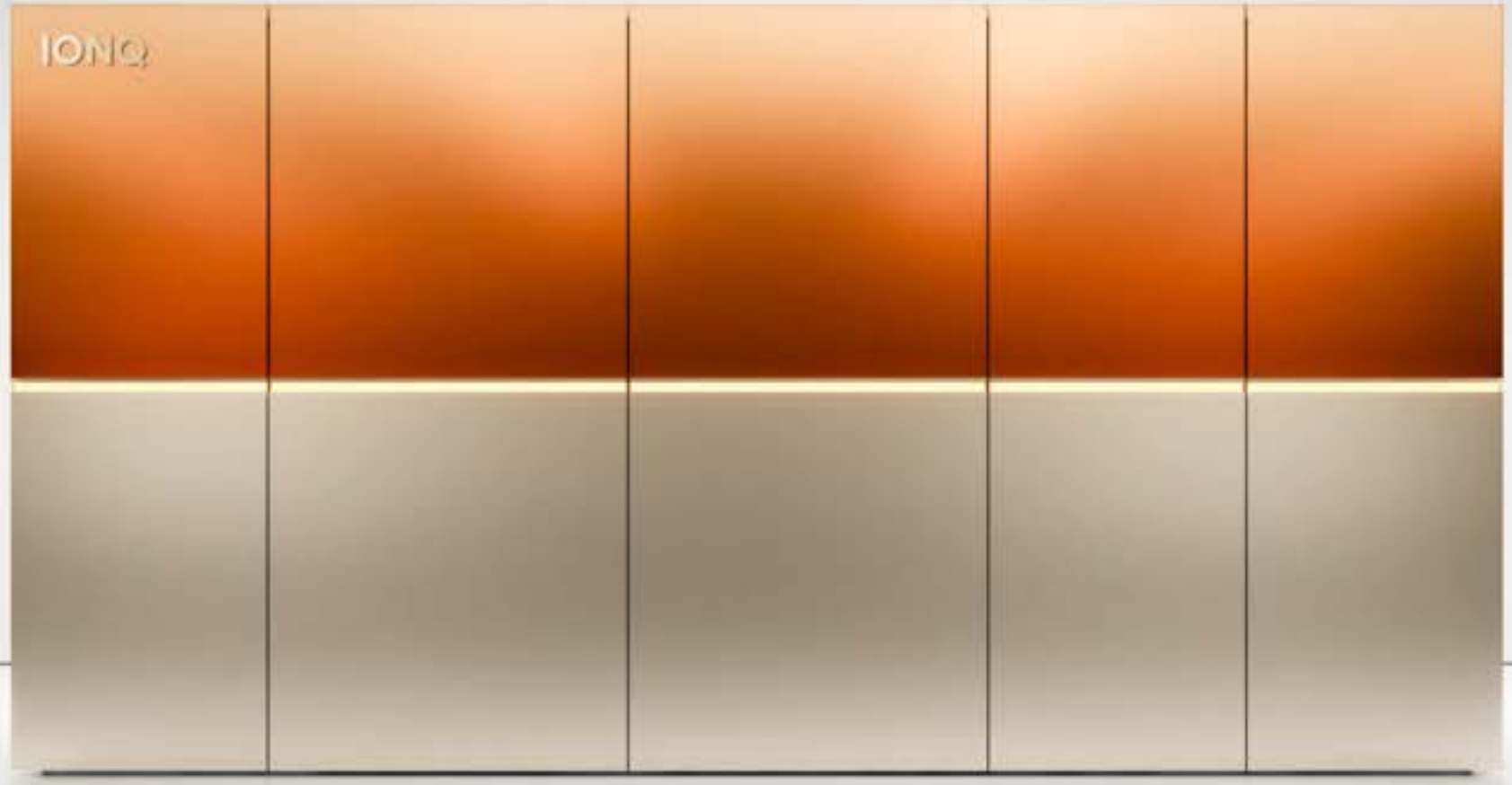
~26 days TO RECOVER

~20,000 PHYSICAL QUBITS

Broad commercial impact across industries:



IONQ SUPERION



Important Information

FORWARD-LOOKING STATEMENTS AND OTHER INFORMATION

This presentation contains forward-looking statements. All statements other than statements of historical fact are forward-looking statements, including but not limited to statements regarding our guidance for the financial performance of our business and certain of its components, our quantum computing roadmap including expected changes in the cost per qubit, the scaling of our manufacturing and operations including potential acceleration with SkyWater, the timeline to breaking encryption, expectations surrounding the future of the global quantum market, our competitive position, and the applications of our technology. In some cases, you can identify forward-looking statements because they contain certain words such as "anticipate," "believe," "close," "confident," "continue," "could," "estimate," "expect," "intend," "may," "plan," "potential," "predict," "project," "should," "will," "would" or the negative of these words or other similar terms or expressions. Forward-looking statements are subject to various risks and uncertainties. Accordingly, there are important factors that could cause actual outcomes or results to differ materially from those indicated in these statements. Moreover, new risks and uncertainties emerge from time to time, and it is not possible for us to predict all risks and uncertainties that could have an impact on the forward-looking statements contained in this presentation. The results, events and circumstances reflected in the forward-looking statements made herein may not be achieved or occur, and actual results, events or circumstances could differ materially from those described in the forward-looking statements. Given these risks and uncertainties, you are cautioned not to place undue reliance on any forward-looking statements. For additional information on these and other factors that could cause our actual results to differ materially from those set forth in the forward-looking statements contained in this presentation, please see our Annual Report on Form 10-K for the year ended December 31, 2025 and our Quarterly Report on Form 10-Q for the quarter ended June 30, 2026 filed with the Securities and Exchange Commission. All information contained herein speaks only as of the date of this presentation, except where otherwise stated. Except as required by law, we undertake no duty to update or revise the information contained herein, publicly or otherwise, including any forward-looking statements.

THIRD-PARTY STATEMENTS

Any statements, opinions, estimates or projections made by guest or third-party presenters reflect solely the views of those individuals and do not reflect the views, opinions or strategy of IonQ. Additionally, statistical data, market research, and industry forecasts used in this presentation were obtained from independent third-party sources. While IonQ believes these sources are reliable, it has not independently verified this information.

TRADEMARKS

The companies depicted in the photographs herein, or in any third-party trademarks, including names, logos and brands, referenced in this presentation, are the property of their respective owners. All references to third-party trademarks are for identification purposes only and nothing herein should be considered an endorsement, authorization or approval by any such company.